

25 July 62

Zip Report

2. Image Quality Meter

During the undersigned's stay at the [REDACTED] fac[REDACTED] STATINTL approximately four days were spent studying the production model of the image quality meter.

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[REDACTED] project engineer, explained the modifications that were built into the production model of this instrument. As it now stands, it is much more useable than the prototype which was delivered to the National Bureau of Standards during the past month.

The entire optical support has been re-designed and made into one massive self-contained unit. This eliminates all the distortion and vibration inherent in the prototype model. Servicing and aligning the optical system has also been simplified.

The incorporation of a light table in the surface of the instrument's work table makes it very helpful for studying the film before placing them in the film platen.

The stage has been equipped with a micrometer for easier manipulation. The glass surface of the stage has been deeply etched with a circular groove through which vacuum holds the analysed film in place.

The attached photograph is a polaroid copy of a resolution tracing made with the instrument at 20 times magnification of a #7 pattern test chart transparency. The fourth hill of the series of curves on the graph indicates that the instrument scanned and resolved 162 lines per millimeter.

The image quality meter worked upon during this period of familiarization is the first of six production models ordered and is now ready for delivery. The parts of the other five instruments are on hand at the factory and require assembly and adjustment before delivery.

The instrument as presently designed should prove highly useful as a research tool and control instrument.

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